

Directional Coupler

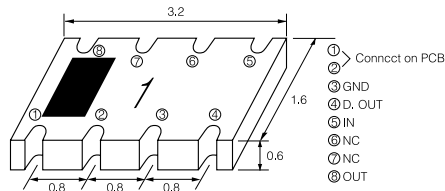
Miniaturized, high efficiency and low cost Directional Coupler made by Hybrid IC's design knowhows and high precision pattern



Features

- Miniature, thin (1.6 × 1.6 × 0.6 mm) and low cost
- For 0.7 GHz~2.0 GHz frequency range
- Input/Output port are alternative

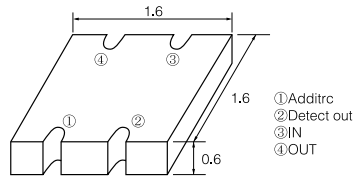
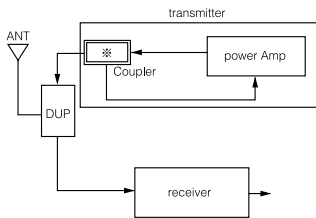
Construction



Recommended Applications

- Portable Telephone
- Personal handyphone System
- Mobile Communication System
- Dual Mode Portable Telephone

Block Diagram



Typical Characteristics

Performance	Part No.	EHDFD 1559 ^{※2}	EHDFD 1556 ^{※2}	EHDFD 1555 ^{※2}	EHDFD 1554 ^{※2}	EHDFD 1553 ^{※2}	EHFFD 1550	EHFFD 1540 ^{※1}	EHFFD 1541 ^{※1}	EHFFD 1543	EHFFD 1544	EHFFD 1552
	Frequency (GHz)		0.8~1.0	0.8~1.0	0.8~1.0	1.4~1.6	1.85~1.95	1.85~2.0	0.8~1.0	0.85~2.0	1.85~2.0	0.8~1.0
Insertion Loss (dB)		0.25dB max	0.35dB max	0.2dB max	0.3dB max	0.35dB max	0.3dB max	0.25dB max	0.4dB max	0.4dB max	0.25dB max	0.45dB max
Coupled Value (dB)		17±2dB ±1dB _{※3}	14±2dB ±1dB _{※3}	20±2dB ±1dB _{※3}	17±2dB ±1dB _{※3}	14±1dB	20±1dB	17±2dB ±1dB _{※3}	14±1dB	17±2dB ±1dB _{※3}	14±1dB	14±2dB
Isolation (dB)		25dB min	20dB min	28dB min	23dB min	20dB min	26dB min	25dB min	22dB min	20dB min	25dB min	20dB min
V S W R		1.3max	1.3max	1.3max	1.3max	1.3max	1.3max	1.3max	1.3max	1.3max	1.3max	1.3max
Size		3.2×1.6	3.2×1.6	3.2×1.6	3.2×1.6	3.2×1.6	3.2×1.6	1.6×1.6	1.6×1.6	1.6×1.6	1.6×1.6	3.2×1.6

※1 : External terminal resistor (50Ω) must be connected

※2 : Part No. of EHD ····· is transferred from EHD to EHF in order to standardize of Part No.

※3 : ±1dB for narrow Band